

# Work Order ID 131198

Monday, March 30, 2015 9:16:08 AM

**\*131198\***

Page 1

Item ID: D412-702-343

Accept

**\*N900040100\***

Setup Start **\*NS1\***

Revision ID:

Stop **\*NS2\***

Item Name: Shoulder Harness, 3-Point Att., Inertia Reel Continuous Belt, 5 Man Fwd

Start Date: 3/30/2015 Start Qty: 1.00 **\*1\***

Cust Item ID:

Required Date: 3/30/2015 Req'd Qty: 1.00 **\*1\***

Customer:

Reference:

Approvals: Process Plan: MLS Date: 1503.30 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start **\*NR1\***

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop **\*NR2\***

| Sequence ID/<br>Work Center ID | Operation<br>Description | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|

| Draw Nbr | Revision Nbr |
|----------|--------------|
| DSI9511  | A            |

100 Document Control  
DOCUMENT CONTROL

0.00

DAS  
27  
9-89

**\*100\***

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPP D412-702-343 CHG001

1x

DAS  
46  
9-89

MAR 31 2015

105 Pick Kit

0.00

**\*105\***

Packaging

Memo

0.00

Packaging

DAS  
27  
9-89  
MAR 31 2015



110 QC4- 100% Inspect kits for completeness

0.00

**\*110\***

QC

Memo

0.00

Quality Control

1x

DAS  
46  
9-89

MAR 31 2015

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Root Cause    | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|-----------------------------------------------------|-------------------|--------------------|-------------|--------------|--------------|
| Design        |      |      |     |                                                     |                   |                    |             |              |              |
| Doc/Data      |      |      |     |                                                     |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |                                                     |                   |                    |             |              |              |
| Handling/Pre  |      |      |     |                                                     |                   |                    |             |              |              |
| Material      |      |      |     |                                                     |                   |                    |             |              |              |
| Operator      |      |      |     |                                                     |                   |                    |             |              |              |
| Offset/Setup  |      |      |     |                                                     |                   |                    |             |              |              |
| Process       |      |      |     |                                                     |                   |                    |             |              |              |
| Supplier      |      |      |     |                                                     |                   |                    |             |              |              |
| Training      |      |      |     |                                                     |                   |                    |             |              |              |
| Transport     |      |      |     |                                                     |                   |                    |             |              |              |
| Unapproved    |      |      |     |                                                     |                   |                    |             |              |              |

### FAULT CATEGORY

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crimp/Kink/Ripple/Wave<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Crushing<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Marks/Chatter<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damage/Defect<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Fit/Function | <input type="checkbox"/> Folio/Program<br><input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete/Unqualified<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Misaligned/off center<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Off-set<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence | <input type="checkbox"/> Outside Dimensions<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Set-up<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><input type="checkbox"/> Other |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Work Order ID 131198**

Monday, March 30, 2015 9:16:08 AM

**\*131198\***

Page 2

Item ID: D412-702-343

Accept

**\*N900040100\***Setup Start **\*NS1\***

Revision ID:

Item Name: Shoulder Harness, 3-Point Att., Inertia Reel Continuous Belt, 5 Man Fwd

Stop **\*NS2\***Start Date: 3/30/2015 Start Qty: 1.00 **\*1\***

Cust Item ID:

Required Date: 3/30/2015 Req'd Qty: 1.00 **\*1\***

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Run Start **\*NR1\***  
Stop **\*NR2\***

| Sequence ID/<br>Work Center ID | Operation<br>Description                                                                            | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty   | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|-----------------------------------------------------------------------------------------------------|----------------------|---------|--------|--------------|---------------|-----------------|------------------|----------------|
| 120                            | Packaging                                                                                           | 0.00                 |         |        |              |               |                 |                  |                |
| <b>*120*</b>                   |                                                                                                     |                      |         |        |              |               |                 |                  |                |
| Packaging                      | Memo                                                                                                | 0.00                 |         |        |              | (1x)          | DAS<br>46       | MAR 31 2015      |                |
| Packaging                      | Identify and pack for shipping as per PPP D412-702-343<br>Location: <u>PG-101</u><br>PPP Rev: _____ |                      |         |        |              |               | <del>9-00</del> |                  |                |
| 130                            | QC21- Final Inspection - Work Order Release                                                         | 0.00                 |         |        |              |               |                 |                  |                |
| <b>*130*</b>                   |                                                                                                     |                      |         |        |              |               |                 |                  |                |
| QC                             | Memo                                                                                                | 0.00                 |         |        |              |               |                 |                  |                |
| Quality Control                |                                                                                                     |                      |         |        |              |               |                 |                  |                |

MLJ 150401

MS 3.31

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Root Cause    | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|-----------------------------------------------------|-------------------|--------------------|-------------|--------------|--------------|
| Design        |      |      |     |                                                     |                   |                    |             |              |              |
| Doc/Data      |      |      |     |                                                     |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |                                                     |                   |                    |             |              |              |
| Handling/Pre  |      |      |     |                                                     |                   |                    |             |              |              |
| Material      |      |      |     |                                                     |                   |                    |             |              |              |
| Operator      |      |      |     |                                                     |                   |                    |             |              |              |
| Offset/Setup  |      |      |     |                                                     |                   |                    |             |              |              |
| Process       |      |      |     |                                                     |                   |                    |             |              |              |
| Supplier      |      |      |     |                                                     |                   |                    |             |              |              |
| Training      |      |      |     |                                                     |                   |                    |             |              |              |
| Transport     |      |      |     |                                                     |                   |                    |             |              |              |
| Unapproved    |      |      |     |                                                     |                   |                    |             |              |              |

### FAULT CATEGORY

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crimp/Kink/Ripple/Wave<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Crushing<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Marks/Chatter<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damage/Defect<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Fit/Function | <input type="checkbox"/> Folio/Program<br><input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete/Unqualified<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Misaligned/off center<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Off-set<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><br><input type="checkbox"/> Outside Dimensions<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Set-up<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><input type="checkbox"/> Other |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# Picklist Print

Page 1

Monday, March 30, 2015 9:16:12 AM

Work Order ID: 131198

**\*131198\***

Parent Item: D412-702-343

**\*D412-702-343\***

Parent Item Name: Shoulder Harness, 3-Point Att., Inertia Reel Continuous Belt, 5 Man Fwd

Start Date: 3/30/2015

Required Date: 3/30/2015

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:A new issue DD 10.04.30 verified:EC

| Component Item ID/<br>Item Name | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand | Qty per Kit | Total<br>Qty | Qty<br>Issued | Date<br>Issued<br>DAS | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|-----------------------|--------|
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|-----------------------|--------|

D412-702-301

Manufactured No

105

Each

6.0000

1

1

27

**\*D412-702-301\***

**46**

**\*\***

MAR 31 2015

Harness Assembly



Location

Loc Qty

Loc Code

ST468

4

127844

2

127845

1

128861

1

ST471

2

129836

2

D412-702-303

Manufactured No

105

Each

7.0000

1

1

**\*D412-702-303\***

**46**

**\*\***

MAR 31 2015

Harness Assembly

**46**

Location

Loc Qty

Loc Code

ST468

4

127493

2

127494

2

ST471

3

128453

1

129854

2



DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Root Cause    | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|-----------------------------------------------------|-------------------|--------------------|-------------|--------------|--------------|
| Design        |      |      |     |                                                     |                   |                    |             |              |              |
| Doc/Data      |      |      |     |                                                     |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |                                                     |                   |                    |             |              |              |
| Handling/Pre  |      |      |     |                                                     |                   |                    |             |              |              |
| Material      |      |      |     |                                                     |                   |                    |             |              |              |
| Operator      |      |      |     |                                                     |                   |                    |             |              |              |
| Offset/Setup  |      |      |     |                                                     |                   |                    |             |              |              |
| Process       |      |      |     |                                                     |                   |                    |             |              |              |
| Supplier      |      |      |     |                                                     |                   |                    |             |              |              |
| Training      |      |      |     |                                                     |                   |                    |             |              |              |
| Transport     |      |      |     |                                                     |                   |                    |             |              |              |
| Unapproved    |      |      |     |                                                     |                   |                    |             |              |              |

### FAULT CATEGORY

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crimp/Kink/Ripple/Wave<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Crushing<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Marks/Chatter<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damage/Defect<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Fit/Function | <input type="checkbox"/> Folio/Program<br><input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete/Unqualified<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Misaligned/off center<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Off-set<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><br><input type="checkbox"/> Outside Dimensions<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Set-up<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><input type="checkbox"/> Other |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# Picklist Print

Monday, March 30, 2015 9:16:12 AM

Work Order ID: 131198

**\*131198\***

Parent Item: D412-702-343

**\*D412-702-343\***

Parent Item Name: Shoulder Harness, 3-Point Att., Inertia Reel Continuous Belt, 5 Man Fwd

Start Date: 3/30/2015

Required Date: 3/30/2015

Start Qty: 1.00

Required Qty: 1.00

D412-702-305

Manufactured No

105

Each

4.0000

1

1

**\*D412-702-305\***

Harness Assembly

DAS  
46  
9-39

\*\*

DAS  
27  
9-39  
MAR 31 2015



Location

Loc Qty

Loc Code

ST468

3

127915

1

130031

1

130032

1

ST471

1

127914

1

D412-702-307

Manufactured No

105

Each

4.0000

1

1

**\*D412-702-307\***

Harness Assembly

DAS  
46  
9-39

\*\*

DAS  
27  
9-39  
MAR 31 2015



Location

Loc Qty

Loc Code

ST468

1

127546

1

ST471

3

127547

1

129894

1

129895

1

D412-702-309

Manufactured No

105

Each

4.0000

1

1

**\*D412-702-309\***

Harness Assembly

DAS  
46  
9-89

\*\*

DAS  
27  
9-39  
MAR 31 2015



Location

Loc Qty

Loc Code

ST468

1

127422

1

ST471

3

127423

1

129790

1

129791

1

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Root Cause    | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|-----------------------------------------------------|-------------------|--------------------|-------------|--------------|--------------|
| Design        |      |      |     |                                                     |                   |                    |             |              |              |
| Doc/Data      |      |      |     |                                                     |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |                                                     |                   |                    |             |              |              |
| Handling/Pre  |      |      |     |                                                     |                   |                    |             |              |              |
| Material      |      |      |     |                                                     |                   |                    |             |              |              |
| Operator      |      |      |     |                                                     |                   |                    |             |              |              |
| Offset/Setup  |      |      |     |                                                     |                   |                    |             |              |              |
| Process       |      |      |     |                                                     |                   |                    |             |              |              |
| Supplier      |      |      |     |                                                     |                   |                    |             |              |              |
| Training      |      |      |     |                                                     |                   |                    |             |              |              |
| Transport     |      |      |     |                                                     |                   |                    |             |              |              |
| Unapproved    |      |      |     |                                                     |                   |                    |             |              |              |

### FAULT CATEGORY

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crimp/Kink/Ripple/Wave<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Crushing<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Marks/Chatter<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damage/Defect<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Fit/Function | <input type="checkbox"/> Folio/Program<br><input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete/Unqualified<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Misaligned/off center<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Off-set<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence | <input type="checkbox"/> Outside Dimensions<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Set-up<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><input type="checkbox"/> Other |
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# Picklist Print

Monday, March 30, 2015 9:16:12 AM

Page 3

Work Order ID: 131198

**\*131198\***

Parent Item: D412-702-343

**\*D412-702-343\***

Parent Item Name: Shoulder Harness, 3-Point Att., Inertia Reel Continuous Belt, 5 Man Fwd

Start Date: 3/30/2015

Required Date: 3/30/2015

Start Qty: 1.00

Required Qty: 1.00

D412-702-059

Manufactured No

105 Each 5.0000 1 1

**\*D412-702-059\***

Grommet

DAS  
46  
9-89

\*\*

DAS  
27  
9-89

MAR 31 2015

Location

Loc Qty

Loc Code

PKG12

5

~~B12~~

119512

5

1

DAS  
27  
9-89

MAR 31 2015

D3761-1-041

Manufactured No

105 Each 30.0000 5 5

**\*D3761-1-041\***

Hook & Loop Strip

DAS  
46  
9-89

\*\*

Location

Loc Qty

Loc Code

ST416

30

127907

20

130005

10

S

DAS  
27  
9-89

MAR 31 2015

D3542-1

Manufactured No

105 Each 9.0000 2 2

**\*D3542-1\***

Bracket

DAS  
46  
9-89

\*\*

Location

Loc Qty

Loc Code

ST049

9

122309

3

127533

6

2

DAS  
27  
9-89

MAR 31 2015

D3571-1

Manufactured No

105 Each 22.0000 3 3

**\*D3571-1\***

Guide

DAS  
46  
9-89

\*\*

Location

Loc Qty

Loc Code

ST050

6

121474

2

127410

4

ST051A

16

122542

10

128420

6

B129778

3

Monday, March 30, 2015 9:16:12 AM

Shop Packet Print

Page 3

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Root Cause    | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|-----------------------------------------------------|-------------------|--------------------|-------------|--------------|--------------|
| Design        |      |      |     |                                                     |                   |                    |             |              |              |
| Doc/Data      |      |      |     |                                                     |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |                                                     |                   |                    |             |              |              |
| Handling/Pre  |      |      |     |                                                     |                   |                    |             |              |              |
| Material      |      |      |     |                                                     |                   |                    |             |              |              |
| Operator      |      |      |     |                                                     |                   |                    |             |              |              |
| Offset/Setup  |      |      |     |                                                     |                   |                    |             |              |              |
| Process       |      |      |     |                                                     |                   |                    |             |              |              |
| Supplier      |      |      |     |                                                     |                   |                    |             |              |              |
| Training      |      |      |     |                                                     |                   |                    |             |              |              |
| Transport     |      |      |     |                                                     |                   |                    |             |              |              |
| Unapproved    |      |      |     |                                                     |                   |                    |             |              |              |

### FAULT CATEGORY

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crimp/Kink/Ripple/Wave<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Crushing<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Marks/Chatter<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damage/Defect<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Fit/Function | <input type="checkbox"/> Folio/Program<br><input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete/Unqualified<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Misaligned/off center<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Off-set<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence | <input type="checkbox"/> Outside Dimensions<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Set-up<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><input type="checkbox"/> Other |
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# Picklist Print

Monday, March 30, 2015 9:16:12 AM

Page 4

Work Order ID: 131198

**\*131198\***

Parent Item: D412-702-343

**\*D412-702-343\***

Parent Item Name: Shoulder Harness, 3-Point Att., Inertia Reel Continuous Belt, 5 Man Fwd

Start Date: 3/30/2015

Required Date: 3/30/2015

Start Qty: 1.00

Required Qty: 1.00

D3571-3 DAS Manufactured No

**\*D3571-3\***

DAS  
46  
9-89

Guide

105 Each 17.0000 2 2

\*\*

DAS  
27  
9-89

MAR 31 2015

Location

Loc Qty

Loc Code

ST050

17

121091

4

122648

3

129945

10

D3578-041 Manufactured No

**\*D3578-041\***

DAS  
46  
9-89

Doubler

105 Each 46.0000 6 6

\*\*

DAS  
27  
9-89

MAR 31 2015

Location

Loc Qty

Loc Code

ST051A

46

126312

46

D3610-041 Manufactured No

**\*D3610-041\***

DAS  
46  
9-89

Bracket

105 Each 8.0000 2 2

\*\*

DAS  
27  
9-89

MAR 31 2015

Location

Loc Qty

Loc Code

ST051

8

121597

8

D3618-1 Manufactured No

**\*D3618-1\***

DAS  
46  
9-89

Cap

105 Each 72.0000 2 2

\*\*

DAS  
27  
9-89

MAR 31 2015

Location

Loc Qty

Loc Code

ST051

72

104537

72

Monday, March 30, 2015 9:16:13 AM

Shop Packet Print

Page 4

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Root Cause    | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|-----------------------------------------------------|-------------------|--------------------|-------------|--------------|--------------|
| Design        |      |      |     |                                                     |                   |                    |             |              |              |
| Doc/Data      |      |      |     |                                                     |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |                                                     |                   |                    |             |              |              |
| Handling/Pre  |      |      |     |                                                     |                   |                    |             |              |              |
| Material      |      |      |     |                                                     |                   |                    |             |              |              |
| Operator      |      |      |     |                                                     |                   |                    |             |              |              |
| Offset/Setup  |      |      |     |                                                     |                   |                    |             |              |              |
| Process       |      |      |     |                                                     |                   |                    |             |              |              |
| Supplier      |      |      |     |                                                     |                   |                    |             |              |              |
| Training      |      |      |     |                                                     |                   |                    |             |              |              |
| Transport     |      |      |     |                                                     |                   |                    |             |              |              |
| Unapproved    |      |      |     |                                                     |                   |                    |             |              |              |

### FAULT CATEGORY

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crimp/Kink/Ripple/Wave<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Crushing<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Marks/Chatter<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damage/Defect<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Fit/Function | <input type="checkbox"/> Folio/Program<br><input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete/Unqualified<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Misaligned/off center<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Off-set<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><br><input type="checkbox"/> Outside Dimensions<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Set-up<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><input type="checkbox"/> Other |
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# Picklist Print

Monday, March 30, 2015 9:16:13 AM

Page 5

Work Order ID: 131198

**\*131198\***

Parent Item: D412-702-343

**\*D412-702-343\***

Parent Item Name: Shoulder Harness, 3-Point Att., Inertia Reel Continuous Belt, 5 Man Fwd

Start Date: 3/30/2015

Required Date: 3/30/2015

Start Qty: 1.00

Required Qty: 1.00

AN4-10A

Purchased No

105

Each

123.0000

4

4

**\*AN4-10A\***

DAS

46

Bolt

9-89

\*\*

Location

Loc Qty

Loc Code

CA

17

M129682

17

ST345

106

131677

100

M130466

1

M131153

5

DAS

27

9-89

MAR 31 2015

AN4-44A

Purchased No

105

Each

19.0000

2

2

**\*AN4-44A\***

DAS

46

Bolt

9-89

\*\*

Location

Loc Qty

Loc Code

ST341

19

122800

19

MAR 31 2015

MS24693-S274

Purchased No

105

Each

78.0000

2

2

**\*MS24693-S274\***

DAS

46

Screw

9-89

\*\*

Location

Loc Qty

Loc Code

ST292

78

124670

78

DAS

27

9-89

MAR 31 2015

MS24694-S56

Purchased No

105

Each

46.0000

3

3

**\*MS24694-S56\***

DAS

46

SCREW

9-89

\*\*

Location

Loc Qty

Loc Code

ST289

46

m128402

46

DAS

27

9-89

MAR 31 2015

Monday, March 30, 2015 9:16:13 AM

Shop Packet Print

Page 5

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Root Cause    | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|-----------------------------------------------------|-------------------|--------------------|-------------|--------------|--------------|
| Design        |      |      |     |                                                     |                   |                    |             |              |              |
| Doc/Data      |      |      |     |                                                     |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |                                                     |                   |                    |             |              |              |
| Handling/Pre  |      |      |     |                                                     |                   |                    |             |              |              |
| Material      |      |      |     |                                                     |                   |                    |             |              |              |
| Operator      |      |      |     |                                                     |                   |                    |             |              |              |
| Offset/Setup  |      |      |     |                                                     |                   |                    |             |              |              |
| Process       |      |      |     |                                                     |                   |                    |             |              |              |
| Supplier      |      |      |     |                                                     |                   |                    |             |              |              |
| Training      |      |      |     |                                                     |                   |                    |             |              |              |
| Transport     |      |      |     |                                                     |                   |                    |             |              |              |
| Unapproved    |      |      |     |                                                     |                   |                    |             |              |              |

### FAULT CATEGORY

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crimp/Kink/Ripple/Wave<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Crushing<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Marks/Chatter<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damage/Defect<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Fit/Function | <input type="checkbox"/> Folio/Program<br><input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete/Unqualified<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Misaligned/off center<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Off-set<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><br><input type="checkbox"/> Outside Dimensions<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Set-up<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><input type="checkbox"/> Other |
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# Picklist Print

Monday, March 30, 2015 9:16:13 AM

Page 6

Work Order ID: 131198

**\*131198\***

Parent Item: D412-702-343

**\*D412-702-343\***

Parent Item Name: Shoulder Harness, 3-Point Att., Inertia Reel Continuous Belt, 5 Man Fwd

Start Date: 3/30/2015

Required Date: 3/30/2015

Start Qty: 1.00

Required Qty: 1.00

MS24694-S58

Purchased

No

105

Each

137.0000

2

2

**\*MS24694-S58\***  
SCREW

DAS

**46**

9-89

**\*\***

DAS  
27  
9-89



MAR 31 2015

Location

Loc Qty

Loc Code

ST289

137

123352

37

m131317

100

MS24694-S60

Purchased

No

105

Each

18.0000

1

1

**\*MS24694-S60\***  
Screw

DAS

**46**

9-89

**\*\***

DAS  
27  
9-89



MAR 31 2015

Location

Loc Qty

Loc Code

ST289

18

704407

18

NAS1149D0463J

Purchased

No

105

Each

2,231.000

6

6

**\*NAS1149D0463J\***  
WASHER

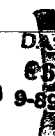
DAS

**46**

9-89

**\*\***

DAS  
27  
9-89



MAR 31 2015

Location

Loc Qty

Loc Code

CA

397

M129682

397

GA

136

M129390

136

ST269

1698

M130799

507

M131624

1191

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

# WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Root Cause    | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|-----------------------------------------------------|-------------------|--------------------|-------------|--------------|--------------|
| Design        |      |      |     |                                                     |                   |                    |             |              |              |
| Doc/Data      |      |      |     |                                                     |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |                                                     |                   |                    |             |              |              |
| Handling/Pre  |      |      |     |                                                     |                   |                    |             |              |              |
| Material      |      |      |     |                                                     |                   |                    |             |              |              |
| Operator      |      |      |     |                                                     |                   |                    |             |              |              |
| Offset/Setup  |      |      |     |                                                     |                   |                    |             |              |              |
| Process       |      |      |     |                                                     |                   |                    |             |              |              |
| Supplier      |      |      |     |                                                     |                   |                    |             |              |              |
| Training      |      |      |     |                                                     |                   |                    |             |              |              |
| Transport     |      |      |     |                                                     |                   |                    |             |              |              |
| Unapproved    |      |      |     |                                                     |                   |                    |             |              |              |

## FAULT CATEGORY

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crimp/Kink/Ripple/Wave<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Crushing<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Marks/Chatter<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damage/Defect<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Fit/Function | <input type="checkbox"/> Folio/Program<br><input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete/Unqualified<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Misaligned/off center<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Off-set<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><br><input type="checkbox"/> Outside Dimensions<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Set-up<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><input type="checkbox"/> Other |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



# Picklist Print

Monday, March 30, 2015 9:16:13 AM

Page 7

Work Order ID: 131198

**\*131198\***

Parent Item: D412-702-343

**\*D412-702-343\***

Parent Item Name: Shoulder Harness, 3-Point Att., Inertia Reel Continuous Belt, 5 Man Fwd

Start Date: 3/30/2015

Required Date: 3/30/2015

Start Qty: 1.00

Required Qty: 1.00

NAS1149D0416J

Purchased  
DAS  
46  
9-89

No

105

Each

5,006.000

4

4

**\*NAS1149D0416J\***  
WASHER

\*\*

DAS  
27  
9-89

DAS  
27  
9-89

MAR 31 2015

Location

Loc Qty

Loc Code

GA

11

m131197

11

ST270

4995

m125773

3

m129022

16

m131511

4976

4

MS21042L4

Purchased

No

105

Each

2,634.000

6

6

**\*MS21042L4\***  
Locknut

DAS  
46  
9-89

\*\*

DAS  
27  
9-89

DAS  
27  
9-89

MAR 31 2015

Location

Loc Qty

Loc Code

FP001

42

m124231

42

GA

634

m127813

634

ST260a

1056

m130799

56

m131803

1000

ST305

902

426

426

m128300

8

m128798

10

m130922

97

m131340

349

m131618

12

6

CR3212-4-4

CR3212-4-4

Purchased  
DAS  
46  
9-89

No

105

Each

0.0000

12

12

**\*CR3212-4-4\***  
CHERRY RIVET

\*\*

DAS  
27  
9-89

DAS  
27  
9-89

MAR 31 2015

m126534

Monday, March 30, 2015 9:16:13 AM

Shop Packet Print

Page 7

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Crosstube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Root Cause    | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|-----------------------------------------------------|-------------------|--------------------|-------------|--------------|--------------|
| Design        |      |      |     |                                                     |                   |                    |             |              |              |
| Doc/Data      |      |      |     |                                                     |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |                                                     |                   |                    |             |              |              |
| Handling/Pre  |      |      |     |                                                     |                   |                    |             |              |              |
| Material      |      |      |     |                                                     |                   |                    |             |              |              |
| Operator      |      |      |     |                                                     |                   |                    |             |              |              |
| Offset/Setup  |      |      |     |                                                     |                   |                    |             |              |              |
| Process       |      |      |     |                                                     |                   |                    |             |              |              |
| Supplier      |      |      |     |                                                     |                   |                    |             |              |              |
| Training      |      |      |     |                                                     |                   |                    |             |              |              |
| Transport     |      |      |     |                                                     |                   |                    |             |              |              |
| Unapproved    |      |      |     |                                                     |                   |                    |             |              |              |

**FAULT CATEGORY**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crimp/Kink/Ripple/Wave<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Crushing<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Marks/Chatter<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damage/Defect<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Fit/Function | <input type="checkbox"/> Folio/Program<br><input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete/Unqualified<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Misaligned/off center<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Off-set<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><br><input type="checkbox"/> Outside Dimensions<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Set-up<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><input type="checkbox"/> Other |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-702 REV. E AND  
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-702 REV. 3  
REF TCCA STC SH04-7  
REF FAA STC SR01997NY  
REF EASA STC EASA.I.M.R.S.00710

131198MCS  
1503-30  
COPY  
TO AMENDMENT  
FOR  
ADVICE

This service instruction adds several kits equipped with improved inertia reels:

The Dart **D412-702-341** 13-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for all 13 passenger seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-041B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-343** 5-Man Forward Facing Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 5 forward facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-043B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-345** 4-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 4 aft facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-045B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-347** 4-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 4 side facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-047B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-349** 1-Man Shoulder Harness Kit provides a 3-point harness with an inertia reel and joined lap and shoulder belts for the center forward facing seating position in the aircraft cabin. The kit also contains hardpoints for securing the harness. The harness for this kit meets the requirements of TSO-C114 and replaces the existing lap belts. This kit should be installed similar to the D412-702-049B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-351** 1-man 3-point shoulder harness kits are available for the outboard seats of the 5-man forward facing bench in Bell 205/212/214/412 model aircraft. The kit can be installed LH or RH. These kits should be installed similar to the D412-702-051B/052B kits, as detailed in Table 1 of this service instruction.

The Dart **D214-702-337** 5-Man Aft Facing Shoulder Harness Kit provides 3-point harnesses with inertial reels and joined lap and shoulder belts for the 5-man aft facing seat installed in the Bell 214B/B1 model aircraft. This kit should be installed similar to the D214-702-037B kit, as detailed in Table 1 of this service instruction.

The Dart **D205-702-353** 4-Man Aft Facing Shoulder Harness Kit provides 3-point harnesses with inertial reels and joined lap and shoulder harnesses for the 4-man aft facing seat installed in the UH-1 model aircraft. This kit should be installed similar to the D205-702-053B kit, as detailed in Table 1 of this service instruction.

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY:   
D. SHEPHERD (DE # 02)

DATE: 10.03.22  
CERT. NO.: SH04-7  
ISSUE NO.: 3

|            |             |                                                                                                                                                                                                                                                                                |              |
|------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| A          | NEW ISSUE   | CP                                                                                                                                                                                                                                                                             | 10.03.18     |
| REV.       | DESCRIPTION | BY                                                                                                                                                                                                                                                                             | DATE         |
| DESIGN     | 92          | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                       |              |
| DRAWN      | 92          |                                                                                                                                                                                                                                                                                |              |
| CHECKED    | 1           | DRAWING NO.                                                                                                                                                                                                                                                                    | REV. A       |
| MFG. APPR. | N/A         | DSI 9511                                                                                                                                                                                                                                                                       | SHEET 1 OF 6 |
| APPROVED   | 140         | TITLE                                                                                                                                                                                                                                                                          | SCALE        |
| DE APPR.   | 14          | NEW SHOULDER HARNESS KITS                                                                                                                                                                                                                                                      | NTS          |
| DATE       | 10.03.18    | COPYRIGHT © 2010 BY DART AEROSPACE LTD<br>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS<br>NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT<br>WRITTEN PERMISSION FROM DART AEROSPACE LTD. |              |

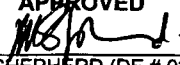
## INSTALLATION

The Dart D412-702-3XX kits should be installed similar to the kits in Installation Instructions IIN-D412-702 Rev. E or Dart Service Instruction (DSI) listed below:

TABLE 1

| Part Number  | Description          | Install similar to:                                                                |
|--------------|----------------------|------------------------------------------------------------------------------------|
| D412-702-341 | Shoulder Harness Kit | D412-702-041B (IIN-D412-702, DSI 9408)                                             |
| D412-702-343 | Shoulder Harness Kit | D412-702-043B (IIN-D412-702, DSI 9453 [214], DSI 9408)                             |
| D412-702-345 | Shoulder Harness Kit | D412-702-045B (IIN-D412-702, DSI 9469)                                             |
| D412-702-347 | Shoulder Harness Kit | D412-702-047B (IIN-D412-702, DSI 9408)                                             |
| D412-702-349 | Shoulder Harness Kit | D412-702-049B (IIN-D412-702, DSI 9408)                                             |
| D412-702-351 | Shoulder Harness Kit | D412-702-051B (LH) (DSI 9397, DSI 9408)<br>D412-702-052B (RH) (DSI 9397, DSI 9408) |
| D214-702-337 | Shoulder Harness Kit | D214-702-037B (DSI 9454)                                                           |
| D205-702-353 | Shoulder Harness Kit | D205-702-053B (DSI 9460)                                                           |
| D412-702-301 | Harness Assembly     | D412-702-101B (IIN-D412-702)                                                       |
| D412-702-303 | Harness Assembly     | D412-702-103B (IIN-D412-702)                                                       |
| D412-702-305 | Harness Assembly     | D412-702-105B (IIN-D412-702)                                                       |
| D412-702-307 | Harness Assembly     | D412-702-107B (IIN-D412-702)                                                       |
| D412-702-309 | Harness Assembly     | D412-702-109B (IIN-D412-702)                                                       |
| D412-702-311 | Harness Assembly     | D412-702-111B (IIN-D412-702)                                                       |
| D412-702-313 | Harness Assembly     | D412-702-113B (IIN-D412-702)                                                       |
| D412-702-315 | Harness Assembly     | D412-702-115B (IIN-D412-702)                                                       |
| D412-702-317 | Harness Assembly     | D412-702-117B (IIN-D412-702)                                                       |
| D412-702-319 | Harness Assembly     | D412-702-119B (DSI 9454)                                                           |
| D412-702-321 | Harness Assembly     | D412-702-121B (DSI 9454, DSI 9469)                                                 |
| D412-702-323 | Harness Assembly     | D412-702-123B (DSI 9454, DSI 9469)                                                 |

CANADA  
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|            |          |                                                                                                                                                                                                                                                                                         |
|------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DESIGN     | 92       | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                |
| DRAWN      | 92       |                                                                                                                                                                                                                                                                                         |
| CHECKED    | J        | DRAWING NO. REV. A                                                                                                                                                                                                                                                                      |
| MFG. APPR. | N/A      | DSI 9511 SHEET 2 OF 6                                                                                                                                                                                                                                                                   |
| APPROVED   | 140      | TITLE SCALE                                                                                                                                                                                                                                                                             |
| DE APPR.   | H        | NEW SHOULDER HARNESS KITS NTS                                                                                                                                                                                                                                                           |
| DATE       | 10.03.18 | COPYRIGHT © 2010 BY DART AEROSPACE LTD<br><small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small> |

# **PARTS LIST**

**TABLE 2**

| QTY<br>-341 | QTY<br>-343 | QTY<br>-345 | QTY<br>-347 | QTY<br>-349 | QTY<br>-351 | Part Number  | Description                                               |
|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-----------------------------------------------------------|
| X           |             |             |             |             |             | D412-702-341 | Dart 13-Man 3-Point<br>Shoulder Harness Kit               |
|             | X           |             |             |             |             | D412-702-343 | Dart 5-Man 3-Point Forward Facing<br>Shoulder Harness Kit |
|             |             | X           |             |             |             | D412-702-345 | Dart 4-Man 3-Point Aft Facing<br>Shoulder Harness Kit     |
|             |             |             | X           |             |             | D412-702-347 | Dart 4-Man 3-Point Side Facing<br>Shoulder Harness Kit    |
|             |             |             |             | X           |             | D412-702-349 | Dart 1-Man 3-Point Forward<br>Shoulder Harness Kit        |
|             |             |             |             |             | X           | D412-702-351 | Dart 1-Man 3-Point<br>Shoulder Harness Kit                |
| 1           | 1           |             | 1           | 1           |             | D412-702-059 | GROMMET KIT                                               |
| 9           | 5           |             | 4           | 1           | 1           | D3761-1-041  | HOOK AND LOOP STRIP (DSI 9408)                            |
| 2           | 1           |             | 1           |             |             | D412-702-301 | HARNESS ASSEMBLY (NEW)                                    |
| 1*          | 1*          |             | 1*          |             |             | D3573-7      | ADAPTER                                                   |
| 1*          | 1*          |             | 1*          |             |             | D4088-041    | SHOULDER HARNESS (NEW)                                    |
| 4*          | 4*          |             | 4*          |             |             | MS24693S272  | SCREW                                                     |
| 4*          | 4*          |             | 4*          |             |             | AN960JD10LL  | WASHER                                                    |
| 4*          | 4*          |             | 4*          |             |             | MS21042L3    | NUT                                                       |
| 2           | 1           |             | 1           |             |             | D412-702-303 | HARNESS ASSEMBLY (NEW)                                    |
| 1*          | 1*          |             | 1*          |             |             | D3573-8      | ADAPTER                                                   |
| 1*          | 1*          |             | 1*          |             |             | D4088-041    | SHOULDER HARNESS (NEW)                                    |
| 4*          | 4*          |             | 4*          |             |             | MS24693S272  | SCREW                                                     |
| 4*          | 4*          |             | 4*          |             |             | AN960JD10LL  | WASHER                                                    |
| 4*          | 4*          |             | 4*          |             |             | MS21042L3    | NUT                                                       |
| 1           | 1           |             |             | 1           |             | D412-702-305 | HARNESS ASSEMBLY (NEW)                                    |
| 1*          | 1*          |             |             | 1*          |             | D3573-1      | ADAPTER                                                   |
| 1*          | 1*          |             |             | 1*          |             | D4088-041    | SHOULDER HARNESS (NEW)                                    |
| 4*          | 4*          |             |             | 4*          |             | MS24693S273  | SCREW                                                     |
| 4*          | 4*          |             |             | 4*          |             | AN960JD10LL  | WASHER                                                    |
| 4*          | 4*          |             |             | 4*          |             | MS21042L3    | NUT                                                       |
| 1           | 1           |             |             |             | 1           | D412-702-307 | HARNESS ASSEMBLY (NEW)                                    |
| 1*          | 1*          |             |             |             | 1*          | D3573-3      | ADAPTER                                                   |
| 1*          | 1*          |             |             |             | 1*          | D4088-041    | SHOULDER HARNESS (NEW)                                    |
| 4*          | 4*          |             |             |             | 4*          | MS24693S272  | SCREW                                                     |
| 4*          | 4*          |             |             |             | 4*          | AN960JD10LL  | WASHER                                                    |
| 4*          | 4*          |             |             |             | 4*          | MS21042L3    | NUT                                                       |
| 1           | 1           |             |             |             |             | D412-702-309 | HARNESS ASSEMBLY (NEW)                                    |
| 1*          | 1*          |             |             |             |             | D3573-3      | ADAPTER                                                   |
| 1*          | 1*          |             |             |             |             | D4088-041    | SHOULDER HARNESS (NEW)                                    |
| 4*          | 4*          |             |             |             |             | MS24693S272  | SCREW                                                     |
| 4*          | 4*          |             |             |             |             | AN960JD10LL  | WASHER                                                    |
| 4*          | 4*          |             |             |             |             | MS21042L3    | NUT                                                       |

\* denotes that part is included in assembly above

continued next page...

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|            |          |                                                                                                                                                                                                                                                                                                 |              |
|------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| DESIGN     | 92       | <b>DART AEROSPACE LTD</b>                                                                                                                                                                                                                                                                       |              |
| DRAWN      | 92       | HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                                                     |              |
| CHECKED    |          | DRAWING NO.                                                                                                                                                                                                                                                                                     | REV. A       |
| MFG. APPR. | N/A      | DSI 9511                                                                                                                                                                                                                                                                                        | SHEET 3 OF 6 |
| APPROVED   | 140      | TITLE                                                                                                                                                                                                                                                                                           | SCALE        |
| DE APPR.   | TH       | NEW SHOULDER HARNESS KITS                                                                                                                                                                                                                                                                       | NTS          |
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| QTY<br>-341 | QTY<br>-343 | QTY<br>-345 | QTY<br>-347 | QTY<br>-349 | QTY<br>-351 | Part Number  | Description            |
|-------------|-------------|-------------|-------------|-------------|-------------|--------------|------------------------|
| 1           |             | 1           |             |             |             | D412-702-311 | HARNESS ASSEMBLY (NEW) |
| 1*          |             | 1*          |             |             |             | D3570-1      | BRACKET                |
| 1*          |             | 1*          |             |             |             | D4088-043    | SHOULDER HARNESS (NEW) |
| 4*          |             | 4*          |             |             |             | MS24694S50   | SCREW                  |
| 4*          |             | 4*          |             |             |             | AN960JD10L   | WASHER                 |
| 4*          |             | 4*          |             |             |             | MS21042L3    | NUT                    |
| 1           |             | 1           |             |             |             | D412-702-313 | HARNESS ASSEMBLY (NEW) |
| 1*          |             | 1*          |             |             |             | D3570-2      | BRACKET                |
| 1*          |             | 1*          |             |             |             | D4088-043    | SHOULDER HARNESS (NEW) |
| 4*          |             | 4*          |             |             |             | MS24694S50   | SCREW                  |
| 4*          |             | 4*          |             |             |             | AN960JD10L   | WASHER                 |
| 4*          |             | 4*          |             |             |             | MS21042L3    | NUT                    |
| 1           |             |             | 1           |             |             | D412-702-315 | HARNESS ASSEMBLY (NEW) |
| 1*          |             |             | 1*          |             |             | D3573-5      | ADAPTER                |
| 1*          |             |             | 1*          |             |             | D4088-041    | SHOULDER HARNESS (NEW) |
| 4*          |             |             | 4*          |             |             | MS24693S272  | SCREW                  |
| 4*          |             |             | 4*          |             |             | AN960JD10LL  | WASHER                 |
| 4*          |             |             | 4*          |             |             | MS21042L3    | NUT                    |
| 1           |             |             | 1           |             |             | D412-702-317 | HARNESS ASSEMBLY (NEW) |
| 1*          |             |             | 1*          |             |             | D3573-5      | ADAPTER                |
| 1*          |             |             | 1*          |             |             | D4088-041    | SHOULDER HARNESS (NEW) |
| 4*          |             |             | 4*          |             |             | MS24693S272  | SCREW                  |
| 4*          |             |             | 4*          |             |             | AN960JD10LL  | WASHER                 |
| 4*          |             |             | 4*          |             |             | MS21042L3    | NUT                    |
| 1           |             | 1           |             |             |             | D412-702-321 | HARNESS ASSEMBLY (NEW) |
| 1*          |             | 1*          |             |             |             | D3570-3      | BRACKET                |
| 1*          |             | 1*          |             |             |             | D4088-043    | SHOULDER HARNESS (NEW) |
| 4*          |             | 4*          |             |             |             | MS24694S50   | BOLT                   |
| 4*          |             | 4*          |             |             |             | AN960JD10L   | WASHER                 |
| 4*          |             | 4*          |             |             |             | MS21042L3    | NUT                    |
| 1           |             | 1           |             |             |             | D412-702-323 | HARNESS ASSEMBLY (NEW) |
| 1*          |             | 1*          |             |             |             | D3570-4      | BRACKET                |
| 1*          |             | 1*          |             |             |             | D4088-043    | SHOULDER HARNESS (NEW) |
| 4*          |             | 4*          |             |             |             | MS24694S50   | BOLT                   |
| 4*          |             | 4*          |             |             |             | AN960JD10L   | WASHER                 |
| 4*          |             | 4*          |             |             |             | MS21042L3    | NUT                    |

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DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
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D. SHEPHERD (DE # 02)

DATE: 10.03.22  
CERT. NO.: SH04-7  
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|            |                                                                                     |                                                                                                                                                                                                                                                                                          |              |
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| DESIGN     |  | <b>DART AEROSPACE LTD</b>                                                                                                                                                                                                                                                                |              |
| DRAWN      |  | HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                                              |              |
| CHECKED    |  | DRAWING NO.                                                                                                                                                                                                                                                                              | REV. A       |
| MFG. APPR. | N/A                                                                                 | DSI 9511                                                                                                                                                                                                                                                                                 | SHEET 4 OF 6 |
| APPROVED   |  | TITLE                                                                                                                                                                                                                                                                                    | SCALE        |
| DE APPR.   |  | NEW SHOULDER HARNESS KITS                                                                                                                                                                                                                                                                | NTS          |
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...continued from previous page

| QTY<br>-341 | QTY<br>-343 | QTY<br>-345 | QTY<br>-347 | QTY<br>-349 | QTY<br>-351 | Part Number | Description     |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------|
| 2           | 2           |             |             |             |             | D3542-1     | BRACKET         |
| 7           | 3           |             | 4           | 1           |             | D3571-1     | GUIDE           |
| 2           | 2           |             |             |             |             | D3571-3     | GUIDE           |
| 2           |             | 2           |             |             |             | D3572-041   | GUIDE ASSEMBLY  |
| 12          | 6           |             | 6           | 2           |             | D3578-041   | DOUBLER         |
| 2           | 2           |             |             |             |             | D3610-041   | BRACKET         |
| 2           | 2           |             |             |             |             | D3618-1     | CAP             |
| 4           | 4           |             |             |             |             | AN4-10A     | BOLT            |
| 2           |             | 2           |             |             |             | AN4-16A     | BOLT            |
| 4           |             | 4           |             |             |             | AN4-25A     | BOLT            |
| 4           |             | 4           |             |             |             | AN4-27A     | BOLT (DSI 9469) |
| 2           | 2           |             |             |             |             | AN4-44A     | BOLT            |
| 2           | 2           |             |             |             |             | MS24693S274 | SCREW           |
| 3           | 3           |             |             | 1           |             | MS24694S56  | SCREW           |
| 10          | 2           |             | 8           |             |             | MS24694S58  | SCREW           |
| 1           | 1           |             |             | 1           |             | MS24694S60  | SCREW           |
| 26          | 6           | 20          |             |             |             | AN960JD416  | WASHER          |
| 4           | 4           |             |             |             |             | AN960JD416L | WASHER          |
| 12          | 6           | 6           |             |             |             | MS21042L4   | NUT             |
| 24          | 12          |             | 12          | 4           |             | CR3212-4-4  | RIVET           |

CANADA  
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AIRCRAFT CERTIFICATION  
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| DESIGN     |  | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                               |
| DRAWN      |  |                                                                                                                                                                                                                                                                                                        |
| CHECKED    |  | DRAWING NO. REV. A                                                                                                                                                                                                                                                                                     |
| MFG. APPR. | N/A                                                                                 | DSI 9511 SHEET 5 OF 6                                                                                                                                                                                                                                                                                  |
| APPROVED   |  | TITLE SCALE                                                                                                                                                                                                                                                                                            |
| DE APPR.   |  | NEW SHOULDER HARNESS KITS NTS                                                                                                                                                                                                                                                                          |
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TABLE 3

| QTY<br>-337 | QTY<br>-353 | Part Number  | Description                                                              |
|-------------|-------------|--------------|--------------------------------------------------------------------------|
| X           |             | D214-702-337 | Dart 5-Man 3 Point Aft Facing<br>Shoulder Harness Kit, for 214 Aircraft  |
|             | X           | D205-702-353 | Dart 4-Man 3 Point Aft Facing<br>Shoulder Harness Kit, for UH-1 Aircraft |
| 1           | 2           | D412-702-311 | HARNESS ASSEMBLY (NEW) --> SEE TABLE 2                                   |
| 1           | 2           | D412-702-313 | HARNESS ASSEMBLY (NEW) --> SEE TABLE 2                                   |
| 1           |             | D412-702-321 | HARNESS ASSEMBLY (NEW) --> SEE TABLE 2                                   |
| 1           |             | D412-702-323 | HARNESS ASSEMBLY (NEW) --> SEE TABLE 2                                   |
| 1           |             | D412-702-319 | HARNESS ASSEMBLY (NEW)                                                   |
| 1*          |             | D3925-041    | BRACKET                                                                  |
| 1*          |             | D4088-043    | SHOULDER HARNESS ASSEMBLY (NEW)                                          |
| 4*          |             | MS24694S50   | BOLT                                                                     |
| 4*          |             | AN960JD10L   | WASHER                                                                   |
| 4*          |             | MS21042L3    | NUT                                                                      |
|             | 1           | D3572-043    | GUIDE ASSY                                                               |
|             | 1           | D3572-044    | GUIDE ASSY                                                               |
| 1           |             | D3920-041    | SEATBELT GUIDE ASSEMBLY                                                  |
| 2           |             | D3920-5      | SEATBELT GUIDE                                                           |
| 1           | 6           | AN4-16A      | BOLT                                                                     |
| 1           |             | AN4-21A      | BOLT                                                                     |
| 7           |             | AN4-25A      | BOLT                                                                     |
| 18          | 12          | AN960JD416   | WASHER                                                                   |
| 9           | 6           | MS21042L4    | NUT                                                                      |

\* denotes that part is included in assembly above

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| DESIGN     | 92       | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                       |
| DRAWN      | 92       |                                                                                                                                                                                                                                                                                |
| CHECKED    | 92       | DRAWING NO. REV. A                                                                                                                                                                                                                                                             |
| MFG. APPR. | N/A      | DSI 9511 SHEET 6 OF 6                                                                                                                                                                                                                                                          |
| APPROVED   | 92       | TITLE SCALE                                                                                                                                                                                                                                                                    |
| DE APPR.   | 92       | NEW SHOULDER HARNESS KITS NTS                                                                                                                                                                                                                                                  |
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## PARTS LIST

TABLE 2

| QTY<br>-341 | QTY<br>-343 | QTY<br>-345 | QTY<br>-347 | QTY<br>-349 | QTY<br>-351 | Part Number  | Description                                               |
|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-----------------------------------------------------------|
| X           |             |             |             |             |             | D412-702-341 | Dart 13-Man 3-Point<br>Shoulder Harness Kit               |
|             | X           |             |             |             |             | D412-702-343 | Dart 5-Man 3-Point Forward Facing<br>Shoulder Harness Kit |
|             |             | X           |             |             |             | D412-702-345 | Dart 4-Man 3-Point Aft Facing<br>Shoulder Harness Kit     |
|             |             |             | X           |             |             | D412-702-347 | Dart 4-Man 3-Point Side Facing<br>Shoulder Harness Kit    |
|             |             |             |             | X           |             | D412-702-349 | Dart 1-Man 3-Point Forward<br>Shoulder Harness Kit        |
|             |             |             |             |             | X           | D412-702-351 | Dart 1-Man 3-Point<br>Shoulder Harness Kit                |
| 1           | 1           |             | 1           | 1           |             | D412-702-059 | GROMMET KIT                                               |
| 9           | 5           |             | 4           | 1           | 1           | D3761-1-041  | HOOK AND LOOP STRIP (DSI 9408)                            |
| 2           | 1           |             | 1           |             |             | D412-702-301 | HARNESS ASSEMBLY (NEW)                                    |
| 1*          | 1*          |             | 1*          |             |             | D3573-7      | ADAPTER                                                   |
| 1*          | 1*          |             | 1*          |             |             | D4088-041    | SHOULDER HARNESS (NEW)                                    |
| 4*          | 4*          |             | 4*          |             |             | MS24693S272  | SCREW                                                     |
| 4*          | 4*          |             | 4*          |             |             | AN960JD10LL  | WASHER                                                    |
| 4*          | 4*          |             | 4*          |             |             | MS21042L3    | NUT                                                       |
| 2           | 1           |             | 1           |             |             | D412-702-303 | HARNESS ASSEMBLY (NEW)                                    |
| 1*          | 1*          |             | 1*          |             |             | D3573-8      | ADAPTER                                                   |
| 1*          | 1*          |             | 1*          |             |             | D4088-041    | SHOULDER HARNESS (NEW)                                    |
| 4*          | 4*          |             | 4*          |             |             | MS24693S272  | SCREW                                                     |
| 4*          | 4*          |             | 4*          |             |             | AN960JD10LL  | WASHER                                                    |
| 4*          | 4*          |             | 4*          |             |             | MS21042L3    | NUT                                                       |
| 1           | 1           |             |             | 1           |             | D412-702-305 | HARNESS ASSEMBLY (NEW)                                    |
| 1*          | 1*          |             |             | 1*          |             | D3573-1      | ADAPTER                                                   |
| 1*          | 1*          |             |             | 1*          |             | D4088-041    | SHOULDER HARNESS (NEW)                                    |
| 4*          | 4*          |             |             | 4*          |             | MS24693S273  | SCREW                                                     |
| 4*          | 4*          |             |             | 4*          |             | AN960JD10LL  | WASHER                                                    |
| 4*          | 4*          |             |             | 4*          |             | MS21042L3    | NUT                                                       |
| 1           | 1           |             |             |             | 1           | D412-702-307 | HARNESS ASSEMBLY (NEW)                                    |
| 1*          | 1*          |             |             |             | 1*          | D3573-3      | ADAPTER                                                   |
| 1*          | 1*          |             |             |             | 1*          | D4088-041    | SHOULDER HARNESS (NEW)                                    |
| 4*          | 4*          |             |             |             | 4*          | MS24693S272  | SCREW                                                     |
| 4*          | 4*          |             |             |             | 4*          | AN960JD10LL  | WASHER                                                    |
| 4*          | 4*          |             |             |             | 4*          | MS21042L3    | NUT                                                       |
| 1           | 1           |             |             |             |             | D412-702-309 | HARNESS ASSEMBLY (NEW)                                    |
| 1*          | 1*          |             |             |             |             | D3573-3      | ADAPTER                                                   |
| 1*          | 1*          |             |             |             |             | D4088-041    | SHOULDER HARNESS (NEW)                                    |
| 4*          | 4*          |             |             |             |             | MS24693S272  | SCREW                                                     |
| 4*          | 4*          |             |             |             |             | AN960JD10LL  | WASHER                                                    |
| 4*          | 4*          |             |             |             |             | MS21042L3    | NUT                                                       |

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| DESIGN     |  | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                |
| DRAWN      |  |                                                                                                                                                                                                                                                                                         |
| CHECKED    |  | DRAWING NO. REV. A                                                                                                                                                                                                                                                                      |
| MFG. APPR. | N/A                                                                                 | DSI 9511 SHEET 3 OF 6                                                                                                                                                                                                                                                                   |
| APPROVED   |  | TITLE SCALE                                                                                                                                                                                                                                                                             |
| DE APPR.   |  | NEW SHOULDER HARNESS KITS NTS                                                                                                                                                                                                                                                           |
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| QTY<br>-341 | QTY<br>-343 | QTY<br>-345 | QTY<br>-347 | QTY<br>-349 | QTY<br>-351 | Part Number | Description     |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------|
| 2           | 2           |             |             |             |             | D3542-1     | BRACKET         |
| 7           | 3           |             | 4           | 1           |             | D3571-1     | GUIDE           |
| 2           | 2           |             |             |             |             | D3571-3     | GUIDE           |
| 2           |             | 2           |             |             |             | D3572-041   | GUIDE ASSEMBLY  |
| 12          | 6           |             | 6           | 2           |             | D3578-041   | DOUBLER         |
| 2           | 2           |             |             |             |             | D3610-041   | BRACKET         |
| 2           | 2           |             |             |             |             | D3618-1     | CAP             |
| 4           | 4           |             |             |             |             | AN4-10A     | BOLT            |
| 2           |             | 2           |             |             |             | AN4-16A     | BOLT            |
| 4           |             | 4           |             |             |             | AN4-25A     | BOLT            |
| 4           |             | 4           |             |             |             | AN4-27A     | BOLT (DSI 9469) |
| 2           | 2           |             |             |             |             | AN4-44A     | BOLT            |
| 2           | 2           |             |             |             |             | MS24693S274 | SCREW           |
| 3           | 3           |             |             | 1           |             | MS24694S56  | SCREW           |
| 10          | 2           |             | 8           |             |             | MS24694S58  | SCREW           |
| 1           | 1           |             |             | 1           |             | MS24694S60  | SCREW           |
| 26          | 6           | 20          |             |             |             | AN960JD416  | WASHER          |
| 4           | 4           |             |             |             |             | AN960JD416L | WASHER          |
| 12          | 6           | 6           |             |             |             | MS21042L4   | NUT             |
| 24          | 12          |             | 12          | 4           |             | CR3212-4-4  | RIVET           |

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| DESIGN     | 92       | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                 |
| DRAWN      | 92       |                                                                                                                                                                                                                                                                          |
| CHECKED    |          | DRAWING NO. REV. A                                                                                                                                                                                                                                                       |
| MFG. APPR. | N/A      | DSI 9511 SHEET 5 OF 6                                                                                                                                                                                                                                                    |
| APPROVED   | 160      | TITLE SCALE                                                                                                                                                                                                                                                              |
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